

CLAIMS

Therefore, having thus described the invention, at least the following is claimed:

1 1. A method for providing an automated diagnostic audit for a cluster
2 computer system, the cluster computer system comprising a plurality of nodes, each of
3 the plurality of nodes providing a mission-critical application to a plurality of clients,
4 the method comprising:

5 receiving information associated with the cluster computer system, the
6 information comprising a plurality of system configuration parameters for each of the
7 plurality of nodes in the cluster computer system;

8 defining a plurality of system configuration categories associated with the
9 plurality of system configuration parameters;

10 defining a threshold benchmark for each of the plurality of system
11 configuration categories, each of the plurality of threshold benchmarks based on a
12 predefined set of rules;

13 associating each of a portion of the plurality of system configuration
14 parameters for each of the plurality of nodes with one of the plurality of system
15 configuration categories; and

16 generating audit information, the audit information based on a comparison of
17 each of the portion of the plurality of system configuration parameters for each of the
18 plurality of nodes to the threshold benchmark for the associated system configuration
19 category.

1 2. The method of claim 1, wherein each of at least a portion of the
2 plurality of system configuration parameters are redundantly collected.

1 3. The method of claim 1, further comprising providing the audit
2 information to a network management entity associated with the cluster computer
3 system.

1 4. The method of claim 1, wherein the plurality of system configuration
2 categories comprise a processing parameter, a storage parameter, a network
3 parameter, an operating system parameter, an applications parameter, and a user
4 parameter.

1 5. The method of claim 1, wherein the plurality of system configuration
2 categories comprise a processing parameter, a random access memory (RAM)
3 parameter, a virtual memory parameter, a disk storage parameter, a network
4 parameter, an operating system parameter, an applications parameter, and a user
5 parameter.

1 6. The method of claim 1, wherein the plurality of threshold benchmarks
2 involve a relative ranking process.

1 7. The method of claim 1, wherein the plurality of threshold benchmarks
2 are normalized thresholds based on a distribution of historical data.

1 8. The method of claim 3, wherein the audit information provided to the
2 network management entity is configured to be presented on a graphical user
3 interface.

1 9. The method of claim 3, wherein the receiving the information
2 associated with the cluster computer system and the providing the audit information
3 are via a communications network.

1 10. The method of claim 3, further comprising receiving payment for
2 providing the audit information.

1 11. A system for providing an automated diagnostic audit for a cluster
2 computer system, the cluster computer system comprising a plurality of nodes, each of
3 the plurality of nodes providing a mission-critical application to a plurality of clients,
4 the system comprising:

5 means for receiving information associated with the cluster computer system,
6 the information comprising a plurality of system configuration parameters for each of
7 the plurality of nodes in the cluster computer system;

8 means for defining a plurality of system configuration categories associated
9 with the plurality of system configuration parameters;

10 means for defining a threshold benchmark for each of the plurality of system
11 configuration categories, each of the plurality of threshold benchmarks based on a
12 predefined set of rules;

13 means for associating each of a portion of the plurality of system configuration
14 parameters for each of the plurality of nodes with one of the plurality of system
15 configuration categories; and

16 means for generating audit information, the audit information based on a
17 comparison of each of the portion of the plurality of system configuration parameters
18 for each of the plurality of nodes to the threshold benchmark for the associated system
19 configuration category.

1 12. The method of claim 11, wherein each of at least a portion of the
2 plurality of system configuration parameters are redundantly collected.

1 13. The system of claim 11, further comprising means for providing the
2 audit information to a network management entity associated with the cluster
3 computer system.

1 14. The system of claim 11, wherein the plurality of system configuration
2 categories comprise a processing parameter, a storage parameter, a network
3 parameter, an operating system parameter, an applications parameter, and a user
4 parameter.

1 15. The system of claim 11, wherein the plurality of system configuration
2 categories comprise a processing parameter, a random access memory (RAM)
3 parameter, a virtual memory parameter, a disk storage parameter, a network
4 parameter, an operating system parameter, an applications parameter, and a user
5 parameter.

1 16. The system of claim 11, wherein the audit information provided to the
2 network management entity is configured to be presented on a graphical user
3 interface.

1 17. The system of claim 11, wherein the receiving the information
2 associated with the cluster computer system and the providing the audit information
3 are via a communications network.

1 18. The system of claim 11, wherein the plurality of threshold benchmarks
2 involve a relative ranking process.

1 19. The system of claim 11, wherein the plurality of threshold benchmarks
2 are normalized thresholds based on a distribution of historical data.

1 20. The system of claim 13, further comprising means for receiving
2 payment for providing the audit information.

1 21. A computer-readable medium for providing an automated diagnostic
2 audit for a cluster computer system, the cluster computer system comprising a
3 plurality of nodes, each of the plurality of nodes providing a mission-critical
4 application to a plurality of clients, the computer-readable medium comprising:

5 a first portion of logic configured to receive information associated with the
6 cluster computer system, the information comprising a plurality of system
7 configuration parameters for each of the plurality of nodes in the cluster computer
8 system;

9 a second portion of logic configured to define a plurality of system
10 configuration categories associated with the plurality of system configuration
11 parameters;

12 a third portion of logic configured to define a threshold benchmark for each of
13 the plurality of system configuration categories, each of the plurality of threshold
14 benchmarks based on a predefined set of rules;

15 a fourth portion of logic configured to associate each of a portion of the
16 plurality of system configuration parameters for each of the plurality of nodes with
17 one of the plurality of system configuration categories; and

18 a fifth portion of logic configured to generate audit information, the audit
19 information based on a comparison of each of the portion of the plurality of system
20 configuration parameters for each of the plurality of nodes to the threshold benchmark
21 for the associated system configuration category.

1 22. The computer-readable medium of claim 21, wherein each of at least a
2 portion of the plurality of system configuration parameters are redundantly collected.

1 23. The computer-readable medium of claim 21, further comprising a sixth
2 portion of logic configured to provide the audit information to a network management
3 entity associated with the cluster computer system.

1 24. The computer-readable medium of claim 21, wherein the plurality of
2 system configuration categories comprise a processing parameter, a storage parameter,
3 a network parameter, an operating system parameter, an applications parameter, and a
4 user parameter.

1 25. The computer-readable medium of claim 21, wherein the plurality of
2 system configuration categories comprise a processing parameter, a random access
3 memory (RAM) parameter, a virtual memory parameter, a disk storage parameter, a
4 network parameter, an operating system parameter, an applications parameter, and a
5 user parameter.

1 26. The computer-readable medium of claim 21, wherein the plurality of
2 threshold benchmarks involve a relative ranking process.

1 27. The computer-readable medium of claim 21, wherein the plurality of
2 threshold benchmarks are normalized thresholds based on a distribution of historical
3 data.

1 28. The computer-readable medium of claim 23, wherein the audit
2 information provided to the network management entity is configured to be presented
3 on a graphical user interface.

1 29. The computer-readable medium of claim 23, wherein the receiving the
2 information associated with the cluster computer system and the providing the audit
3 information are via a communications network.

1 30. The computer-readable medium of claim 23, further comprising a
2 seventh portion of logic configured to receive payment for providing the audit
3 information.

1 31. A method for providing an automated diagnostic audit for a cluster
2 computer system, the cluster computer system comprising a plurality of nodes, each of
3 the plurality of nodes providing a mission-critical application to a plurality of clients,
4 the method comprising:

5 collecting information associated with the cluster computer system, the
6 information comprising a plurality of system configuration parameters for each of the
7 plurality of nodes in the cluster computer system;

8 providing the information associated with the cluster computer system to an
9 application service provider; and

10 receiving diagnostic audit information generated by the application service
11 provider, the diagnostic audit information corresponding to at least a portion of the
12 information associated with the cluster computer system and determined by:

13 defining a plurality of system configuration categories associated with the
14 plurality of system configuration parameters;

15 defining a threshold benchmark for each of the plurality of system
16 configuration categories, each of the plurality of threshold benchmarks based on a
17 predefined set of rules;

18 associating each of a portion of the plurality of system configuration
19 parameters for each of the plurality of nodes with one of the plurality of system
20 configuration categories; and

21 comparing each of the portion of the plurality of system configuration
22 parameters for each of the plurality of nodes to the threshold benchmark for the
23 associated system configuration category.

1 32. The method of claim 31, wherein each of at least a portion of the
2 plurality of system configuration parameters are redundantly collected.

1 33. The method of claim 31, wherein the plurality of system configuration
2 categories comprise a processing parameter, a storage parameter, a network
3 parameter, an operating system parameter, an applications parameter, and a user
4 parameter.

1 34. The method of claim 31, wherein the plurality of system configuration
2 categories comprise a processing parameter, a random access memory (RAM)
3 parameter, a virtual memory parameter, a disk storage parameter, a network
4 parameter, an operating system parameter, an applications parameter, and a user
5 parameter.

1 35. The method of claim 31, wherein the plurality of threshold benchmarks
2 involve a relative ranking process.

1 36. The method of claim 31, wherein the plurality of threshold benchmarks
2 are normalized thresholds based on a distribution of historical data.

1 37. The method of claim 31, further comprising presenting the audit
2 information on a graphical user interface.

1 38. The method of claim 31, wherein the providing the information
2 associated with the cluster computer system to an application service provider is via
3 electronic mail.

1 39. The method of claim 31, wherein the providing the information
2 associated with the cluster computer system to an application service provider is via
3 the Internet.

1 40. The method of claim 31, further comprising paying for the diagnostic
2 audit information.

1 41. A system for providing an automated diagnostic audit for a cluster
2 computer system, the cluster computer system comprising a plurality of nodes, each of
3 the plurality of nodes providing a mission-critical application to a plurality of clients,
4 the system comprising:

5 means for collecting information associated with the cluster computer system,
6 the information comprising a plurality of system configuration parameters for each of
7 the plurality of nodes in the cluster computer system;

8 means for providing the information associated with the cluster computer
9 system to an application service provider; and

10 means for receiving diagnostic audit information generated by the application
11 service provider, the diagnostic audit information corresponding to at least a portion
12 of the information associated with the cluster computer system and determined by:

13 defining a plurality of system configuration categories associated with the
14 plurality of system configuration parameters;

15 defining a threshold benchmark for each of the plurality of system
16 configuration categories, each of the plurality of threshold benchmarks based on a
17 predefined set of rules;

18 associating each of a portion of the plurality of system configuration
19 parameters for each of the plurality of nodes with one of the plurality of system
20 configuration categories; and.

21 comparing each of the portion of the plurality of system configuration
22 parameters for each of the plurality of nodes to the threshold benchmark for the
23 associated system configuration category.

1 42. The system of claim 41, wherein each of at least a portion of the
2 plurality of system configuration parameters are redundantly collected.

1 43. The system of claim 41, wherein the plurality of system configuration
2 categories comprise a processing parameter, a storage parameter, a network
3 parameter, an operating system parameter, an applications parameter, and a user
4 parameter.

1 44. The system of claim 41, wherein the plurality of system configuration
2 categories comprise a processing parameter, a random access memory (RAM)
3 parameter, a virtual memory parameter, a disk storage parameter, a network
4 parameter, an operating system parameter, an applications parameter, and a user
5 parameter.

1 45. The system of claim 41, wherein the plurality of threshold benchmarks
2 involve a relative ranking process.

1 46. The system of claim 41, wherein the plurality of threshold benchmarks
2 are normalized thresholds based on a distribution of historical data.

1 47. The system of claim 41, further comprising means for presenting the
2 audit information on a graphical user interface.

1 48. The system of claim 41, wherein the information associated with the
2 cluster computer system is provided to the application service provider via electronic
3 mail.

1 49. The system of claim 41, wherein the information associated with the
2 cluster computer system is provided to the application service provider via the
3 Internet.

1 50. The system of claim 41, further comprising paying for the diagnostic
2 audit information.

1 51. A computer-readable medium for providing an automated diagnostic
2 audit for a cluster computer system, the cluster computer system comprising a
3 plurality of nodes, each of the plurality of nodes providing a mission-critical
4 application to a plurality of clients, the computer-readable medium comprising:

5 a first portion of logic configured to collect information associated with the
6 cluster computer system, the information comprising a plurality of system
7 configuration parameters for each of the plurality of nodes in the cluster computer
8 system;

9 a second portion of logic configured to provide the information associated
10 with the cluster computer system to an application service provider; and

11 a third portion of logic configured to receive diagnostic audit information
12 generated by the application service provider, the diagnostic audit information
13 corresponding to at least a portion of the information associated with the cluster
14 computer system and determined by:

15 defining a plurality of system configuration categories associated with the
16 plurality of system configuration parameters;

17 defining a threshold benchmark for each of the plurality of system
18 configuration categories, each of the plurality of threshold benchmarks based on a
19 predefined set of rules;

20 associating each of a portion of the plurality of system configuration
21 parameters for each of the plurality of nodes with one of the plurality of system
22 configuration categories; and

23 comparing each of the portion of the plurality of system configuration
24 parameters for each of the plurality of nodes to the threshold benchmark for the
25 associated system configuration category.

1 52. The computer-readable medium of claim 51, wherein each of at least a
2 portion of the plurality of system configuration parameters are redundantly collected.

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55. The computer-readable medium of claim 51, wherein the plurality of
1 threshold benchmarks are normalized thresholds based on a distribution of historical
2 data.
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59. The computer-readable medium of claim 51, further comprising a fifth
portion of logic configured to pay for the diagnostic audit information.

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